Supporting Information for

Color-tunable hetero-dinuclear Pt(II)/B(III) and Pt(II)/Ir(III) arrays with N^O-julolidine ligands

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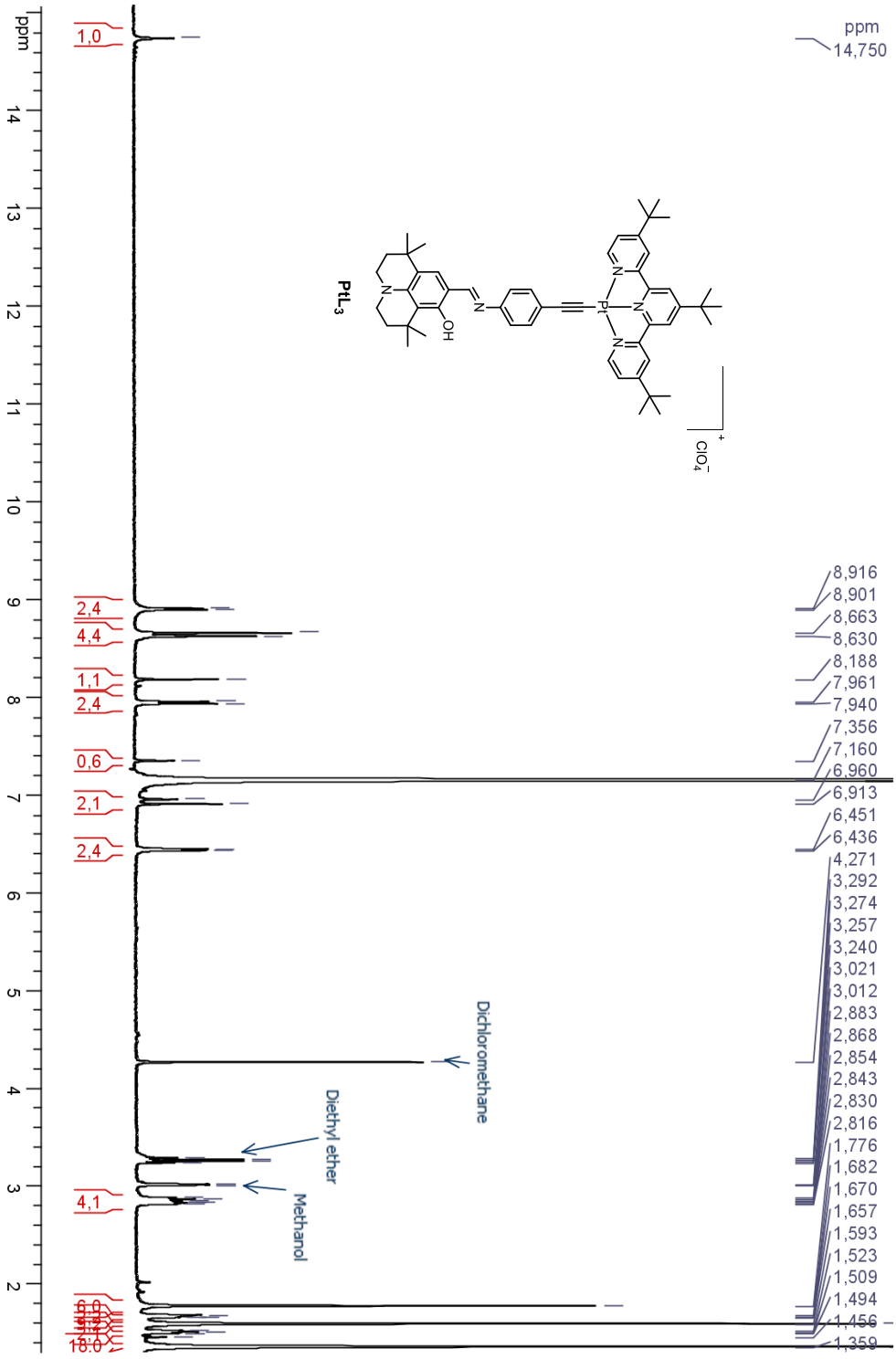

Figure S1. ^{1}H-NMR spectrum of **PtL$_3$** in $CDCl_3$

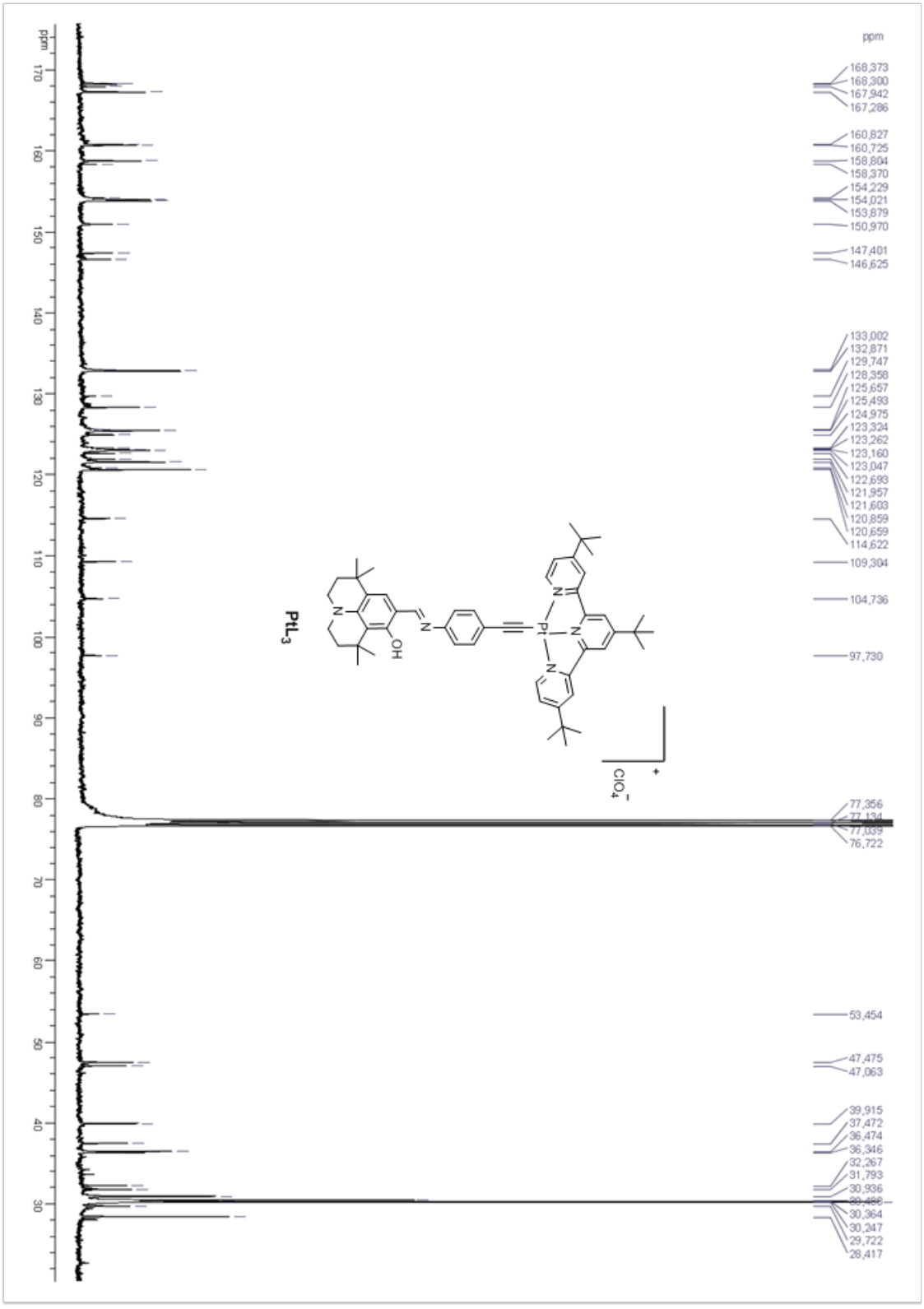

Figure S2. ^{13}C-NMR spectrum of **PtL$_3$** in $CDCl_3$

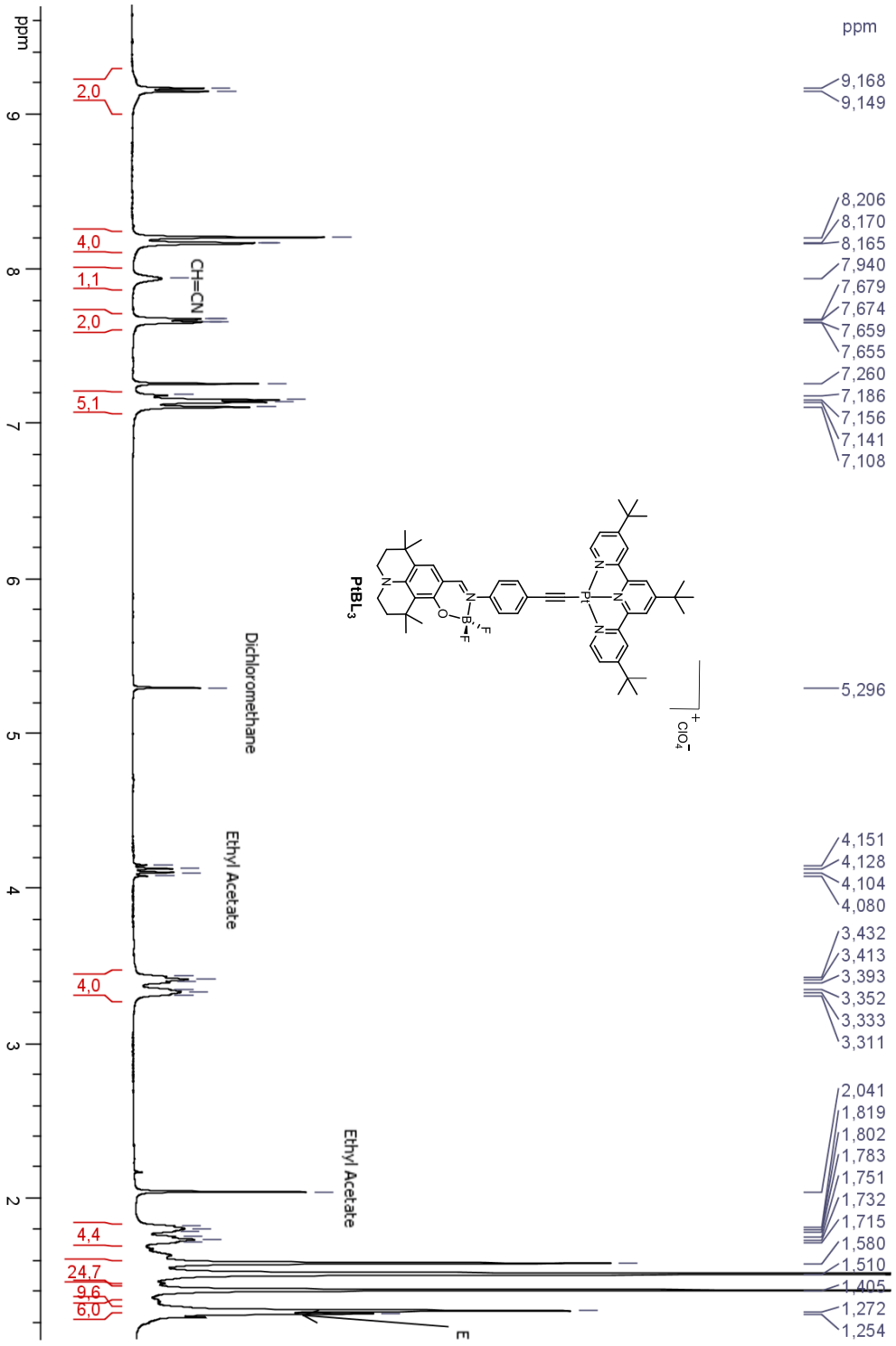

Figure S3. ^{1}H-NMR spectrum of **PtBL$_3$** in $CDCl_3$

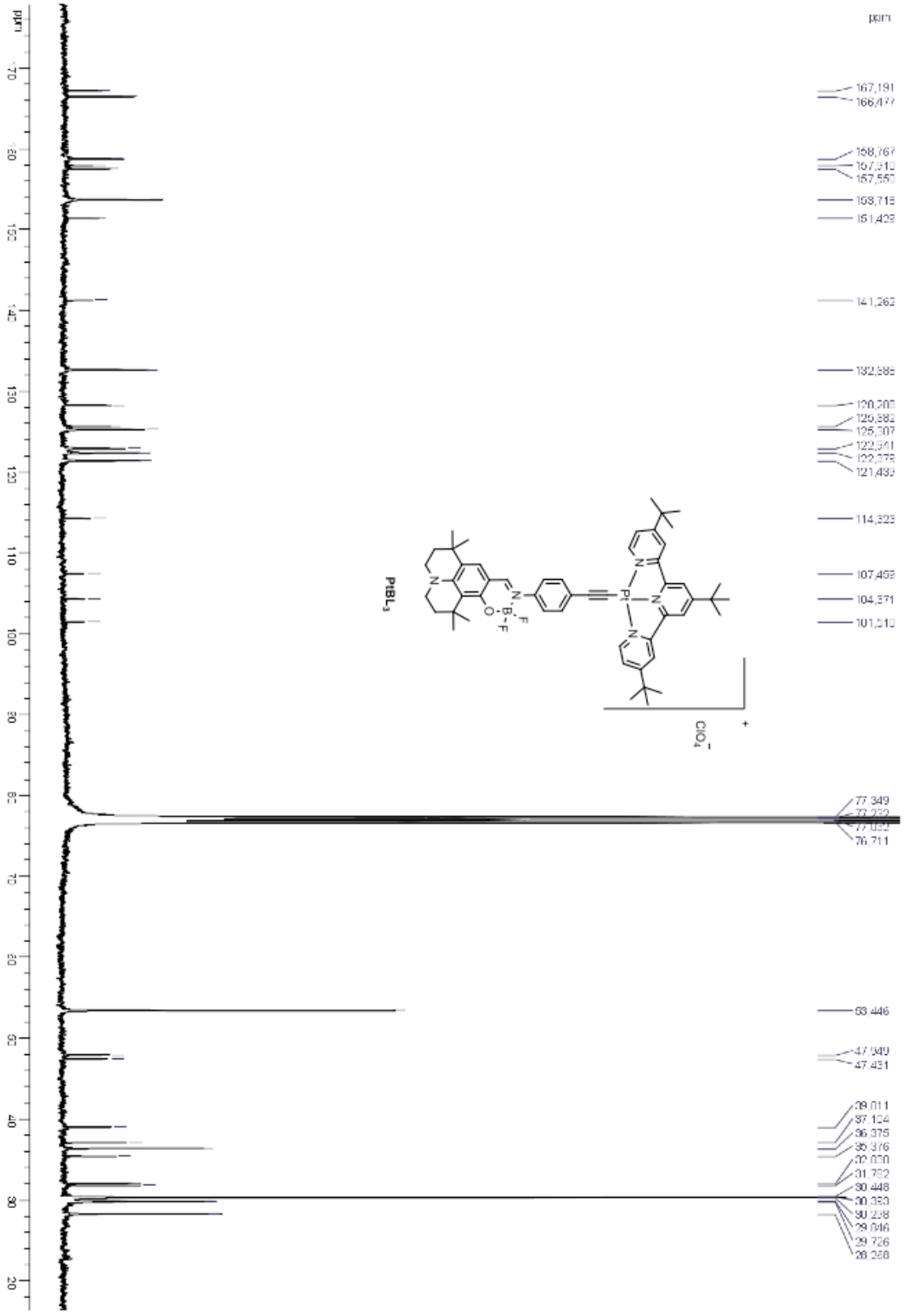

Figure S4. ^{13}C-NMR spectrum of **PtBL$_3$** in $CDCl_3$

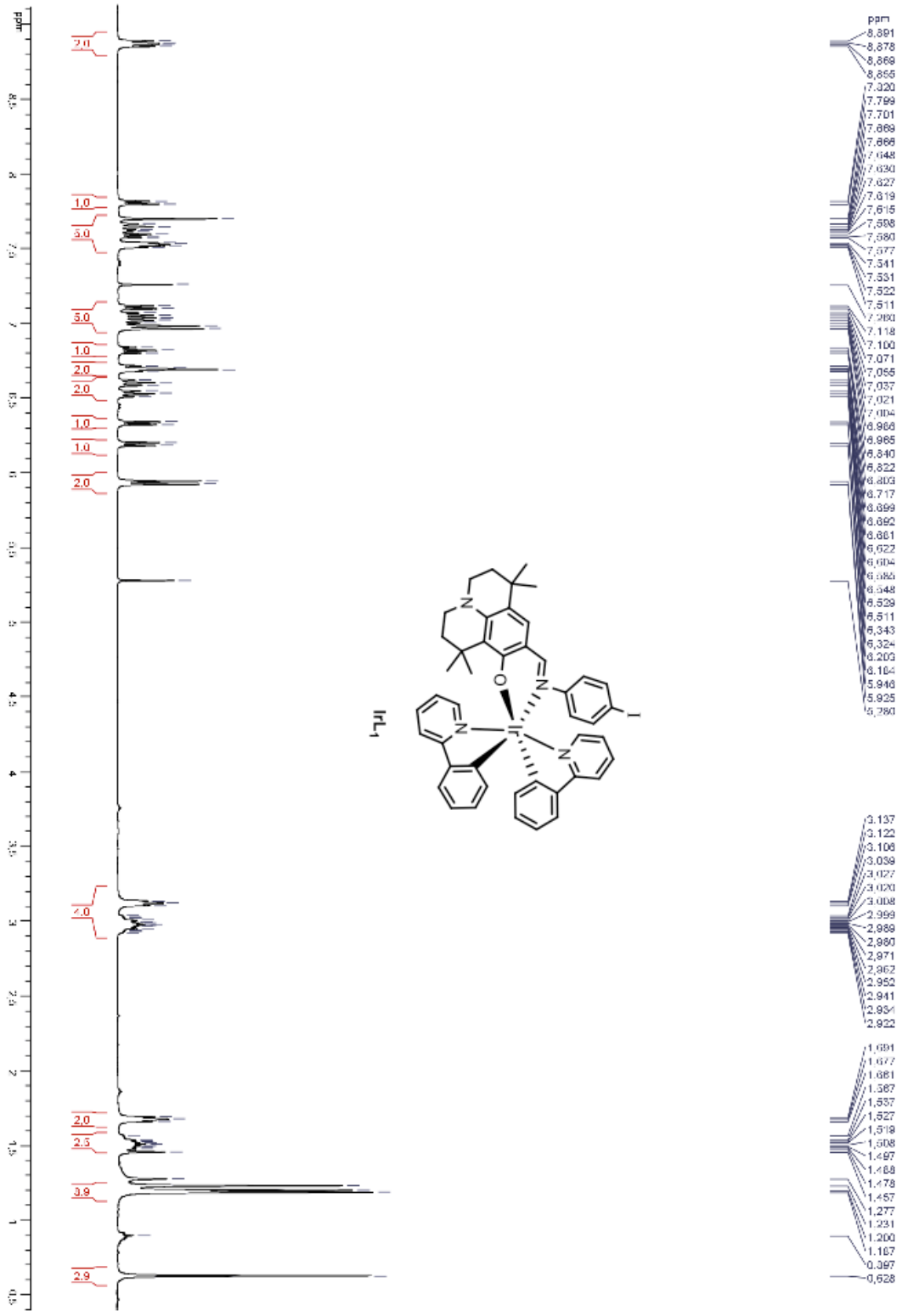

Figure S5. ^{1}H-NMR spectrum of $\mathbf{IrL_1}$ in $CDCl_3$

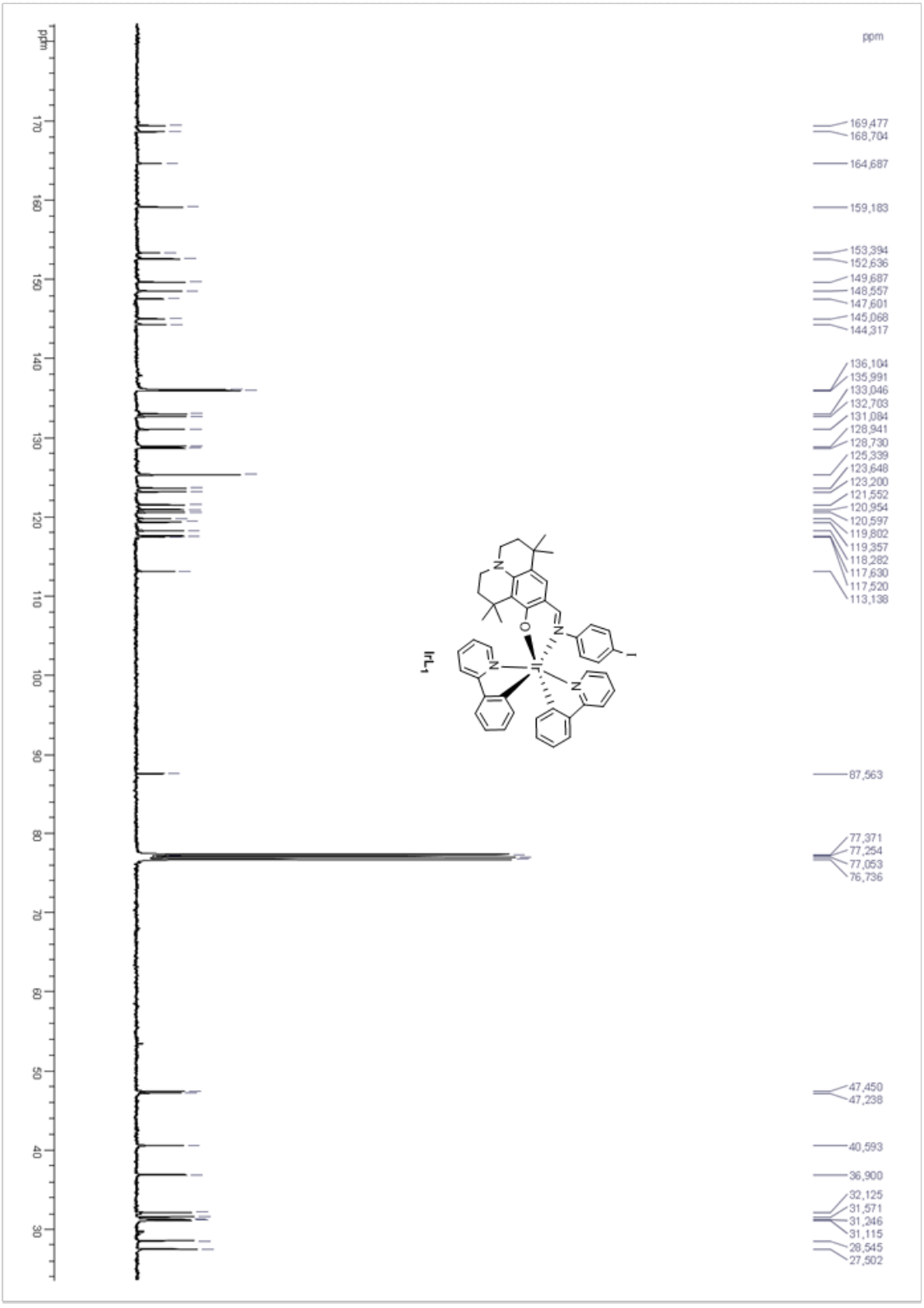

Figure S6. ^{13}C-NMR spectrum of **IrL$_1$** in $CDCl_3$

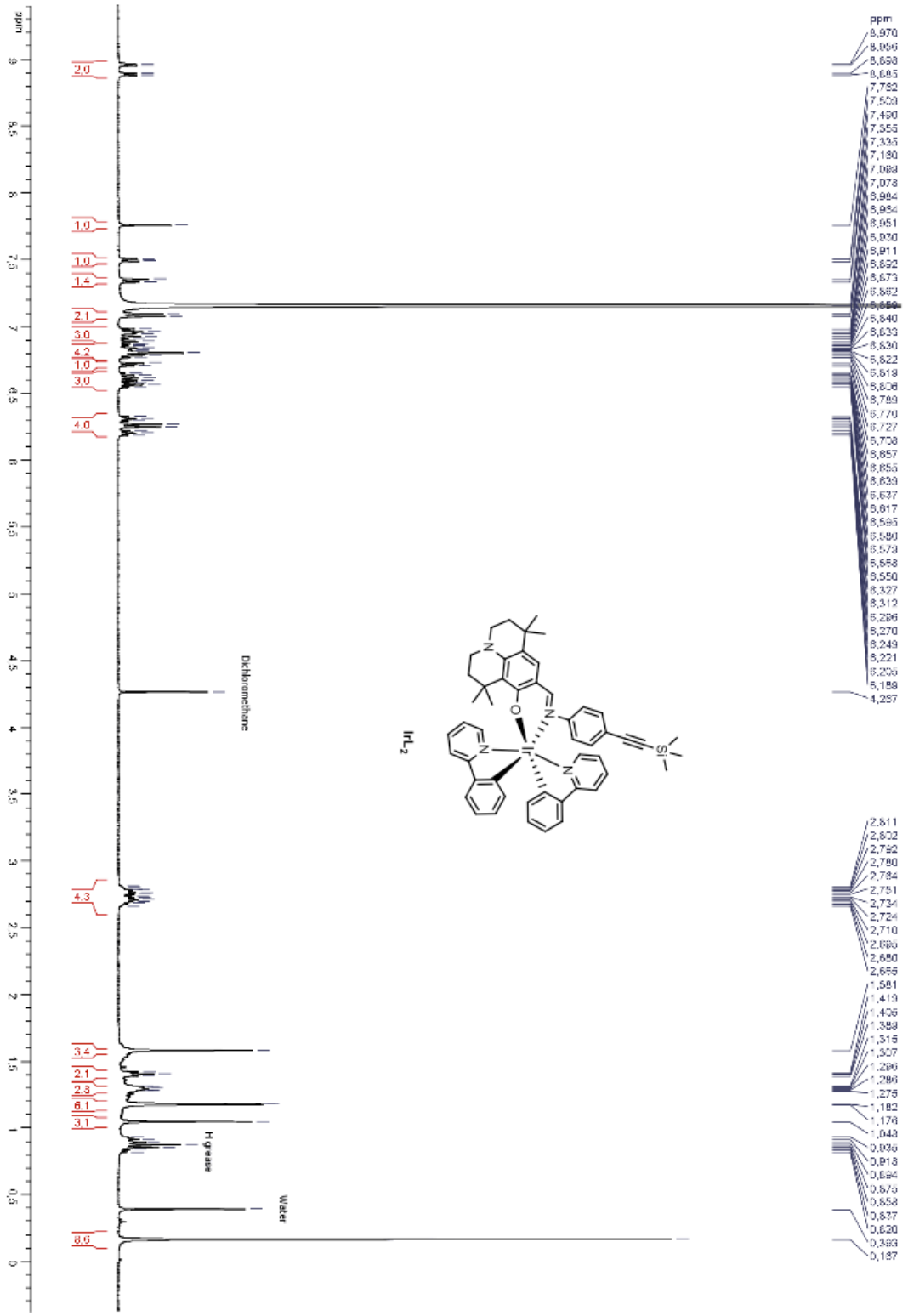

Figure S7. ^{1}H-NMR spectrum of **IrL$_2$** in C_6D_6

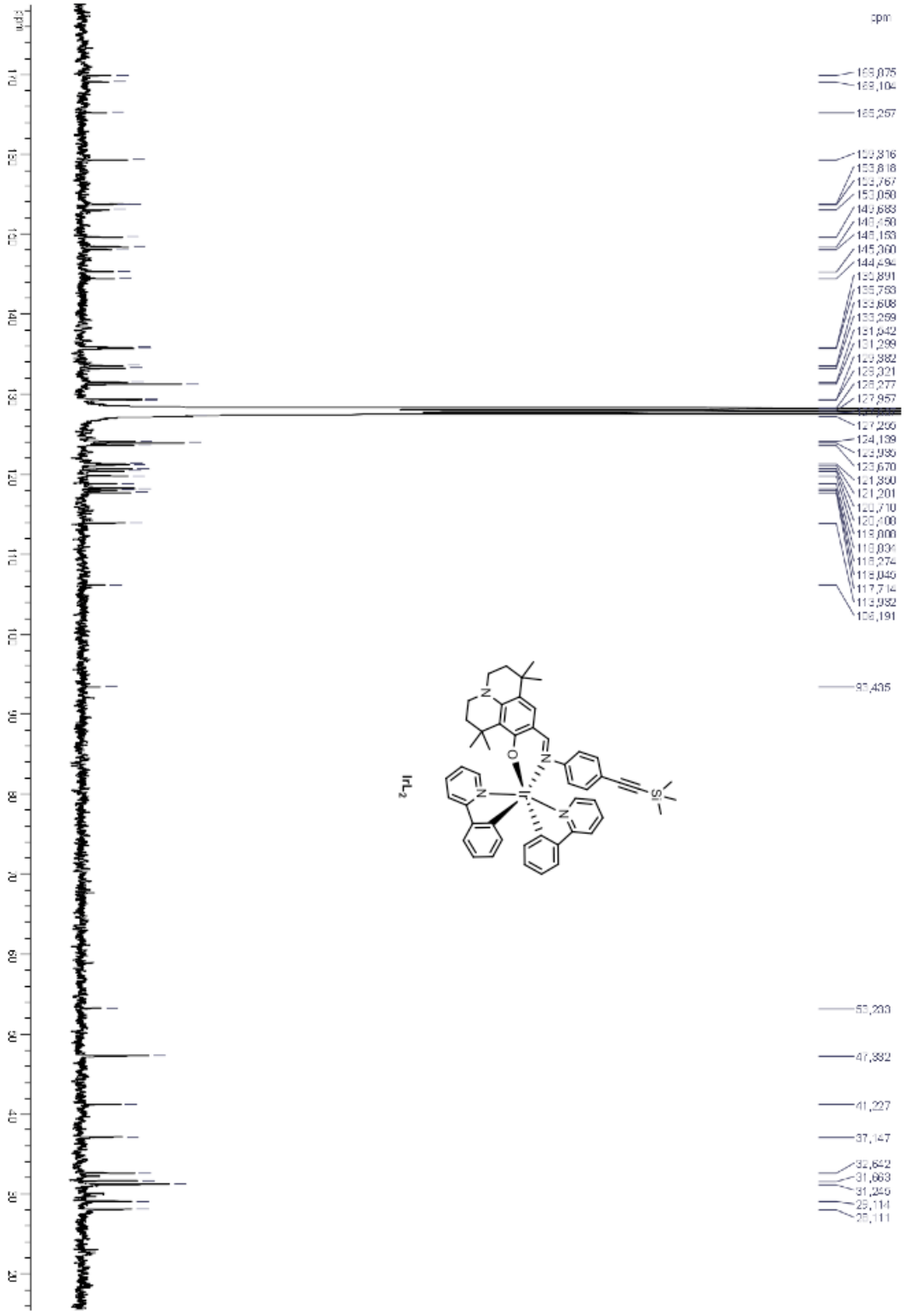

Figure S8. ^{13}C-NMR spectrum of **IrL$_2$** in C_6D_6

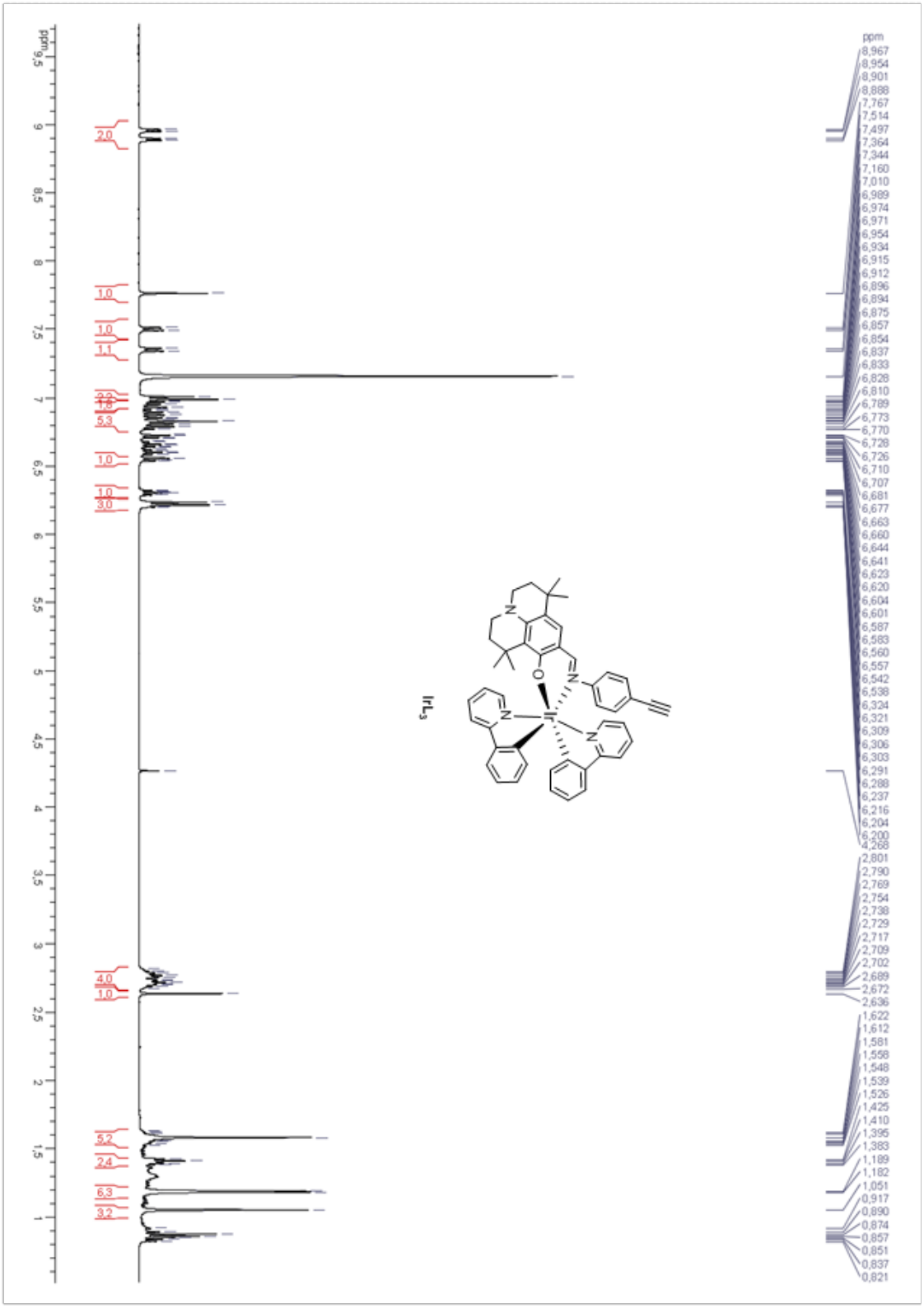

Figure S9. ^{1}H-NMR spectrum of **IrL$_3$** in C_6D_6

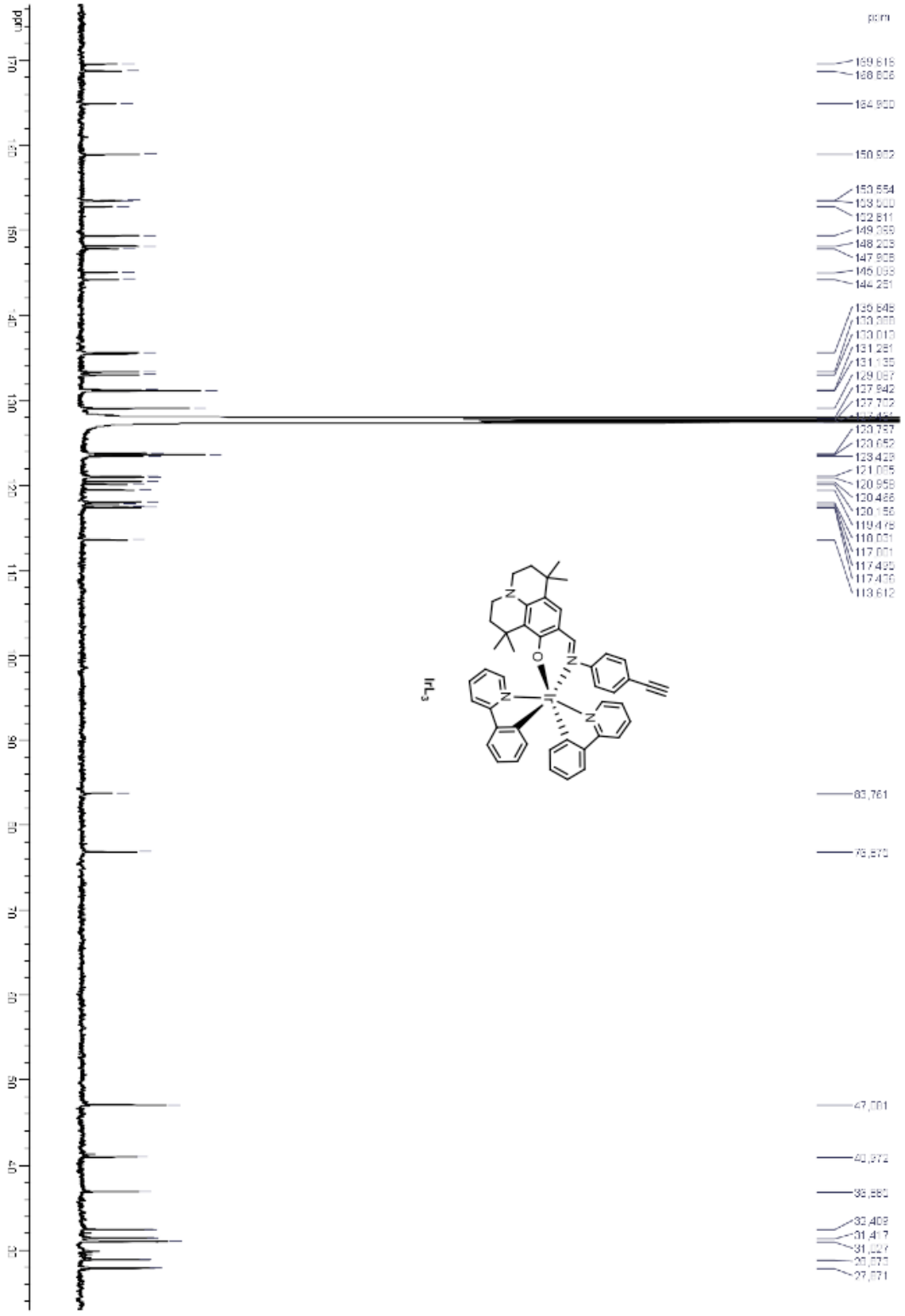

Figure S10. ^{13}C-NMR spectrum of **IrL$_3$** in C_6D_6

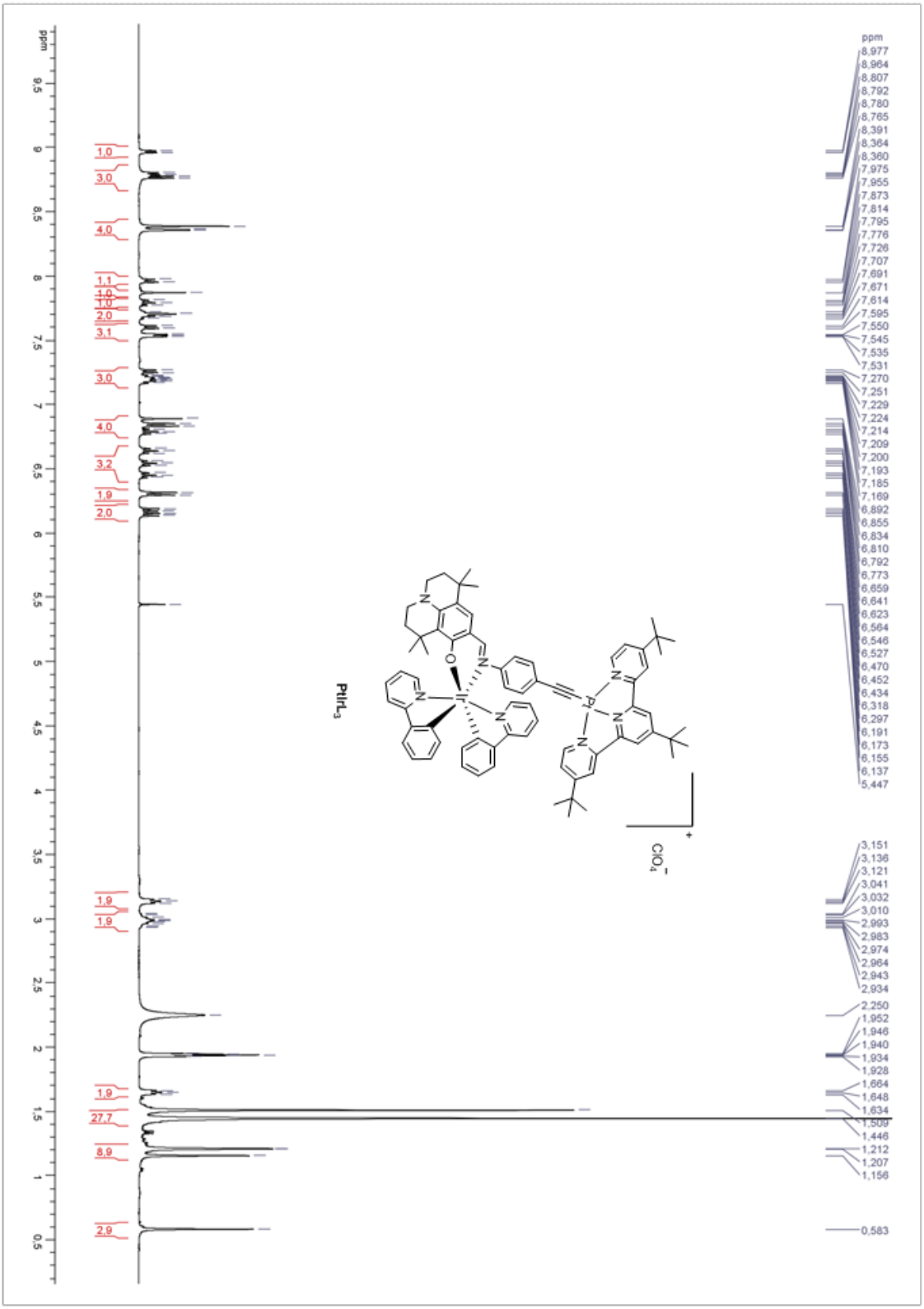

Figure S11. ^{1}H-NMR spectrum of **PtIrL$_3$** in CD_3CN

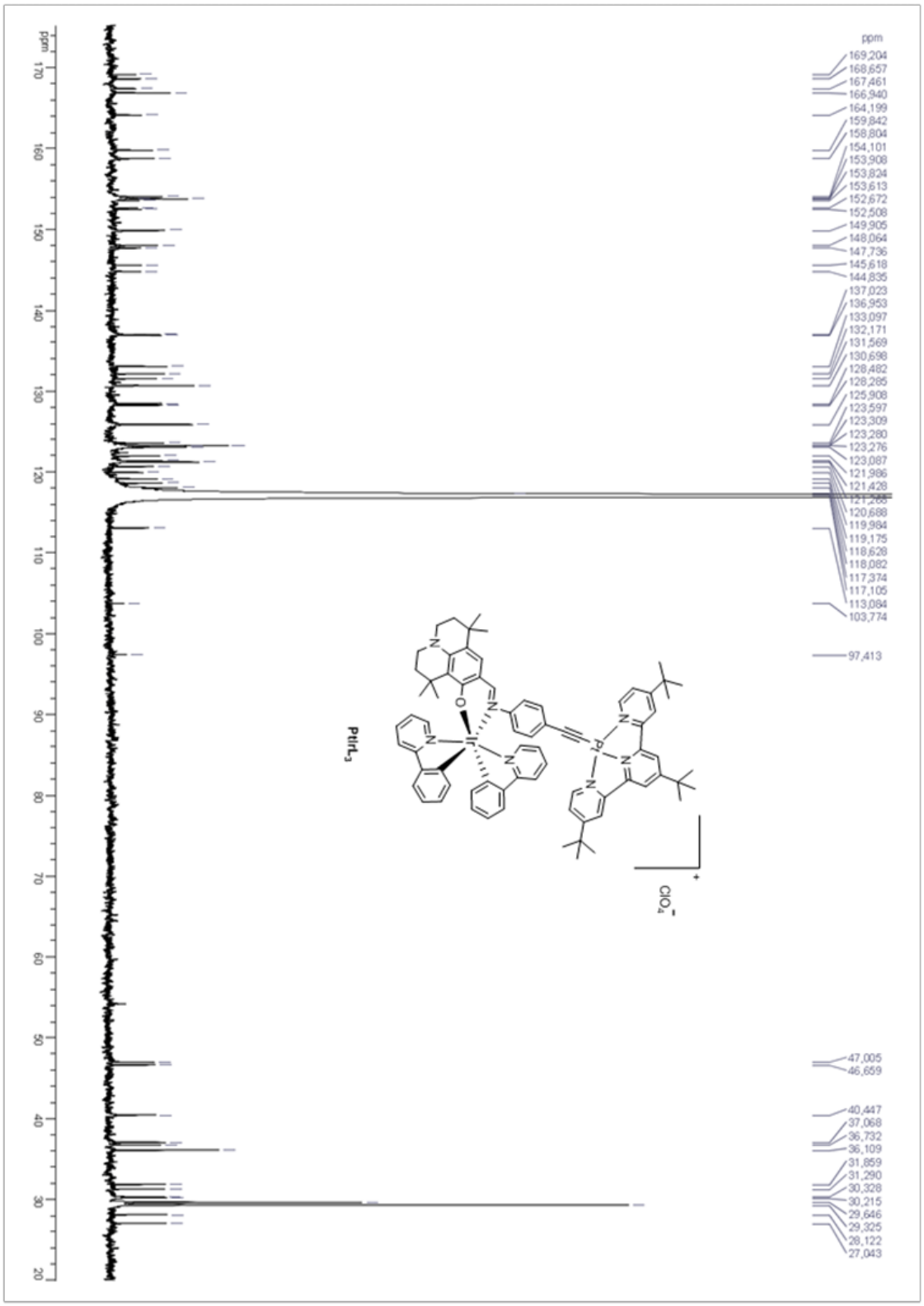

Figure S12. ^{13}C-NMR spectrum of **PtIrL$_3$** in CD_3CN

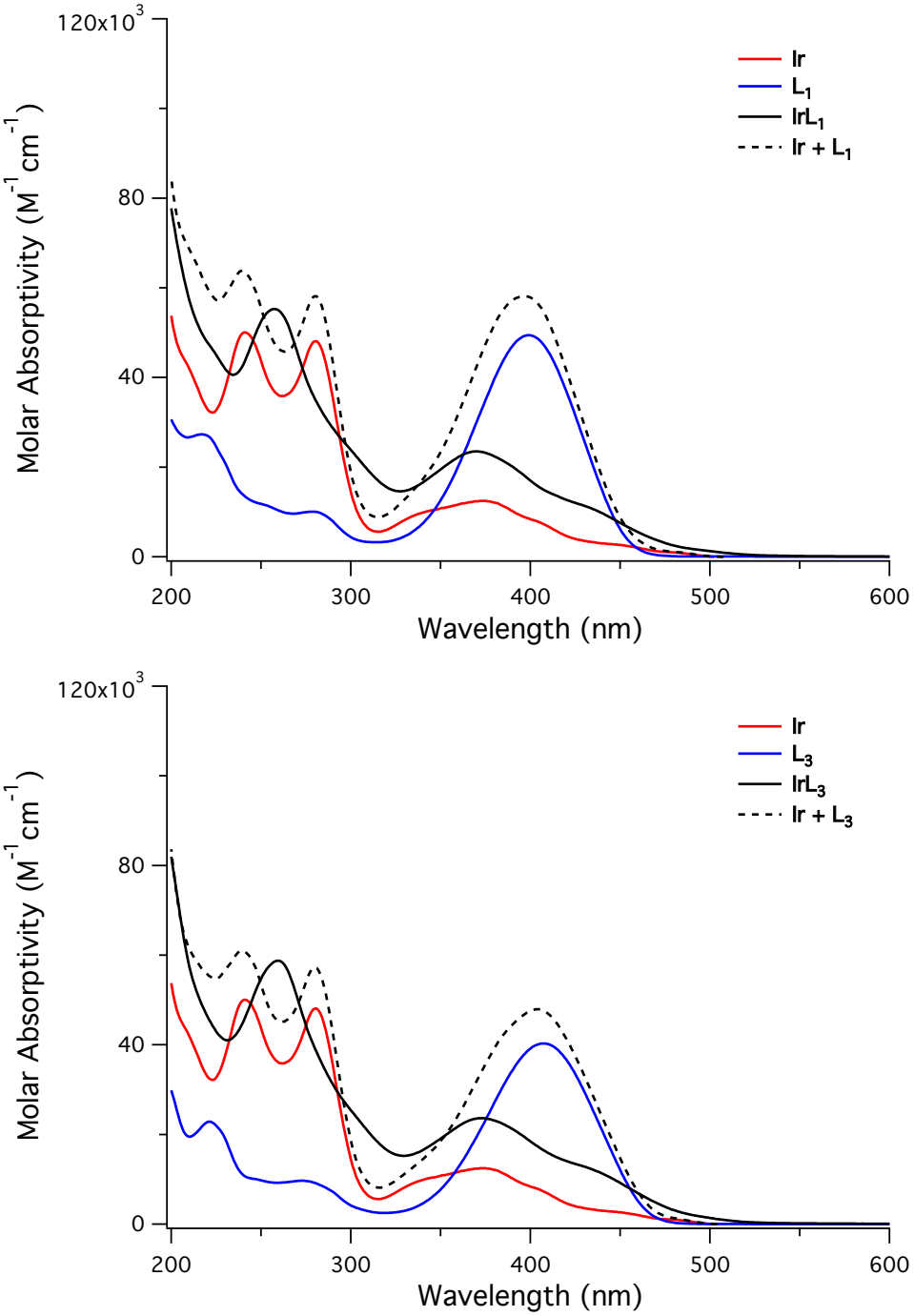

Figure S13. Absorption spectra of $\mathbf{IrL_1}$ and the relevant models **Ir** and $\mathbf{L_3}$ (top), and of $\mathbf{IrL_3}$ and the relevant models **Ir** and $\mathbf{L_3}$ (bottom) in CH_3CN solution at rt. The dotted line represents the spectral addition of the model components.

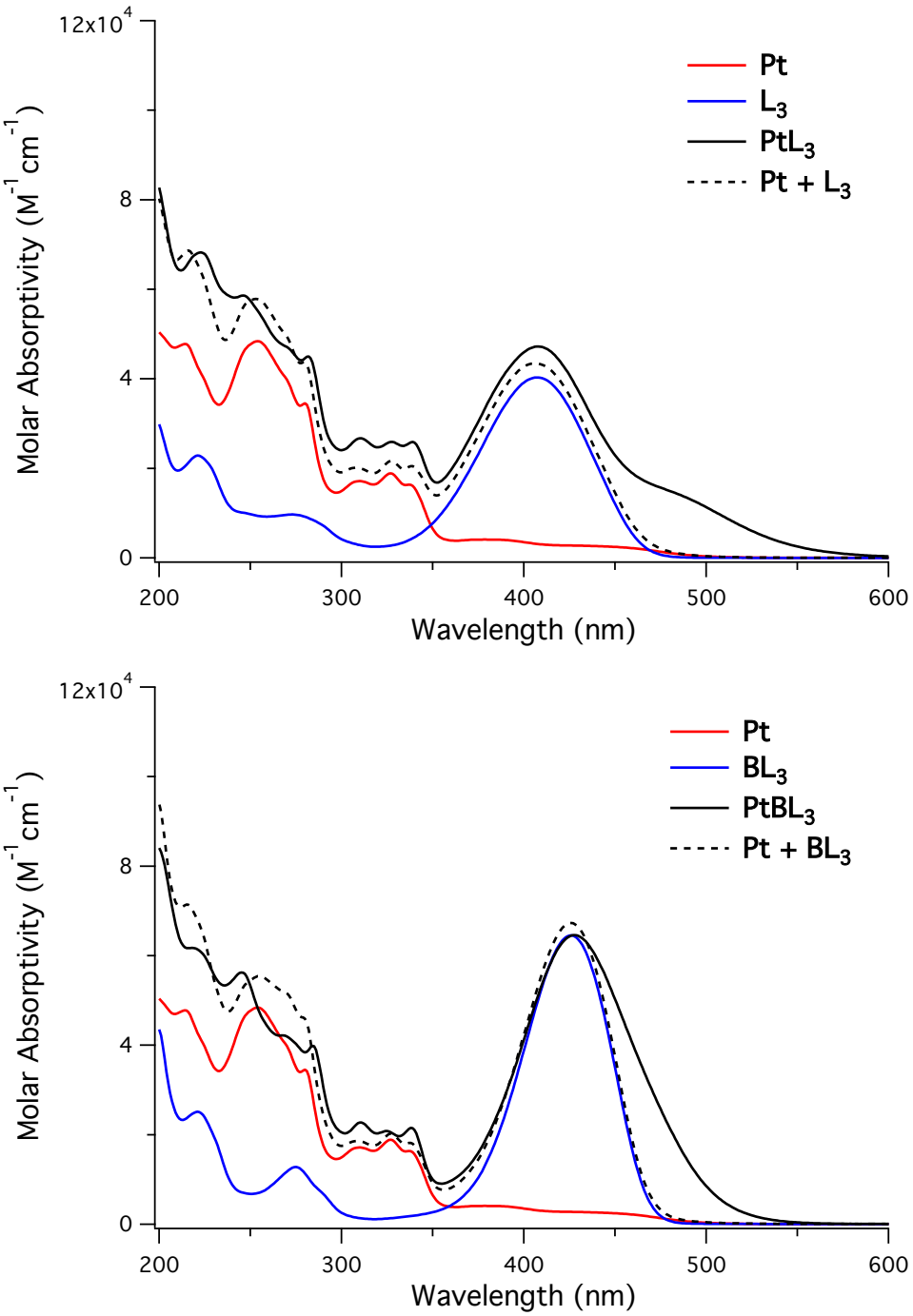

Figure S14. Absorption spectra of the array **PtL$_3$** and the relevant models **Pt** and **L$_3$** (top), and of the array **PtBL$_3$** and the relevant models **Pt** and **BL$_3$** (bottom) in CH_3CN solution at rt. The dotted line represents the spectral addition of the model components.

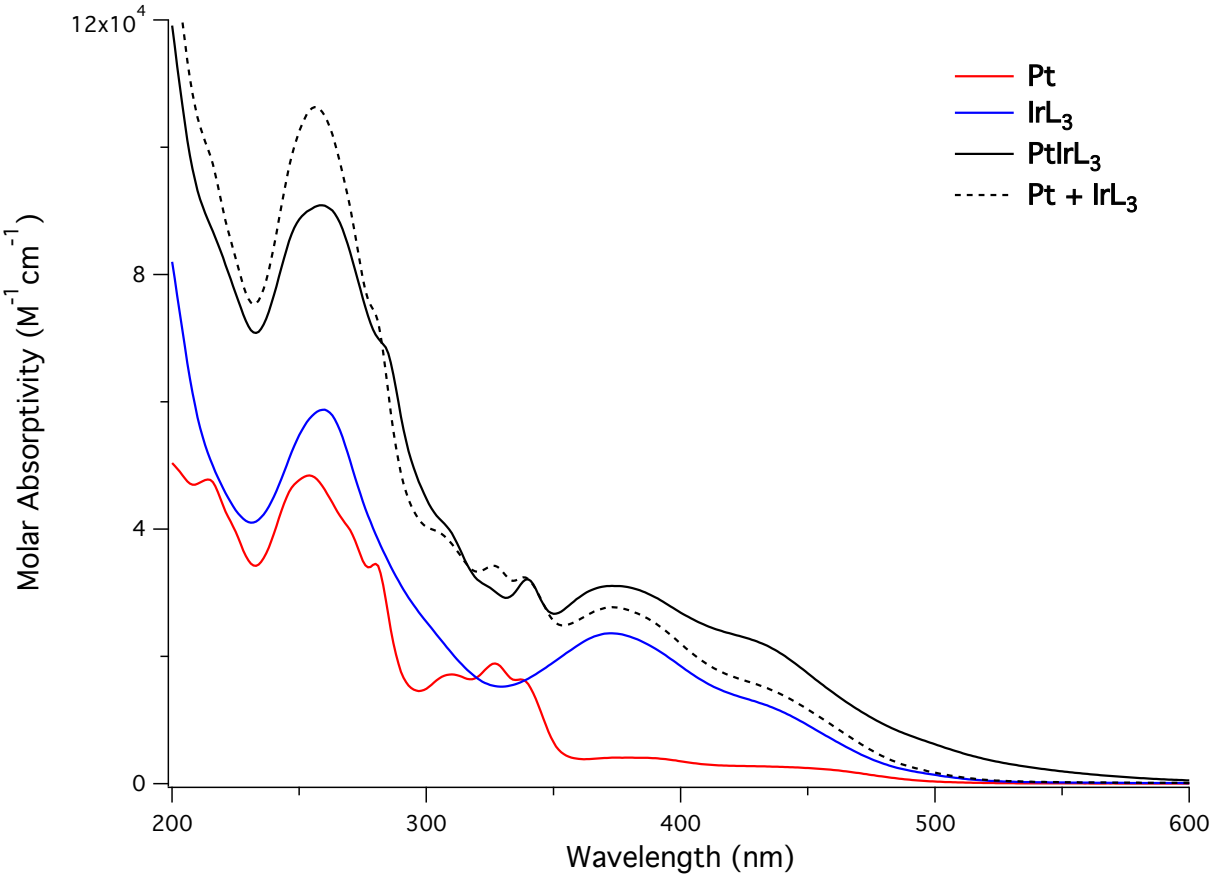

Figure S15. Absorption spectra of the multichromophoric system **PtIrL$_3$** and the relevant models **Pt** and **IrL$_3$** in CH_3CN solution at rt. The dotted line represents the spectral addition of the model components.

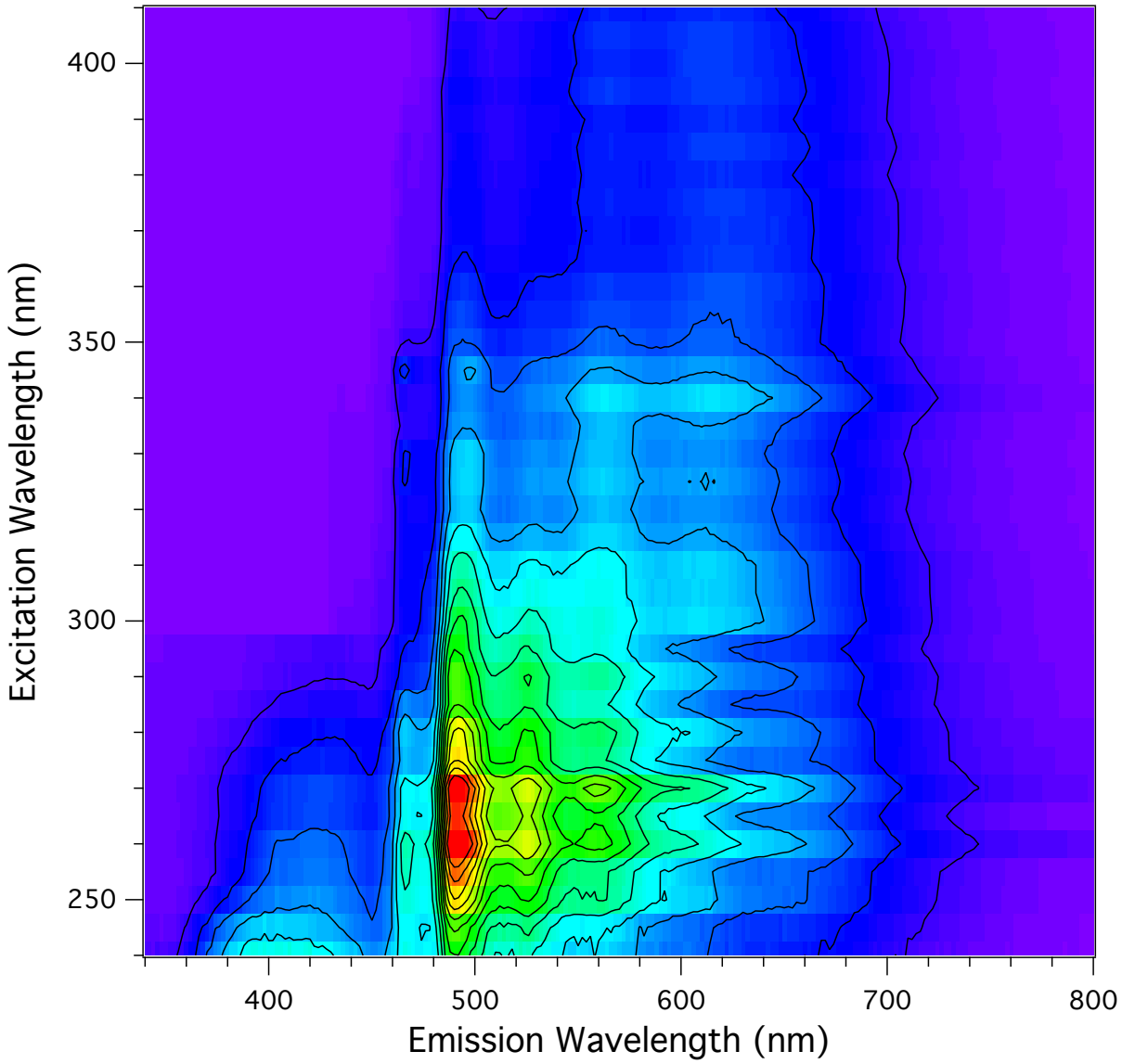

Figure S16. Emission/Excitation contour map of the multichromophoric system **$PtIrL_3$** in CH_3OH:C_2H_5OH (1:4) mixture at 77 K.